

Worldwide at home

Our sales companies and representatives ensure local customer support in more than 100 countries.

GF Piping Systems



SYGEF ECTFE

Extremely reliable

The SYGEF ECTFE system offers excellent durability and safety even under extreme conditions.

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Safe transportation of aggressive media

With the SYGEF ECTFE system we offer a safe and durable high-end solution.

For more than 40 years, SYGEF fluoropolymer systems have been used in industrial applications with high demands for physical properties such as pressure, temperature and chemical resistance. They are known across all industries for the highest requirements in terms of material and manufacturing quality. With the new SYGEF ECTFE system, GF Piping Systems is expanding its proven systems with a special range, which sets new standards when it comes to transportation of particularly aggressive media such as highly concentrated sulfuric acid.

Safety even under extreme conditions

Tested system properties

The SYGEF ECTFE system enables reliable and safe transportation of chemicals with a pH value of 0 to 14. The combination of SYGEF ECTFE components with the latest IR welding technology ensures a tested connection and offers the highest level of safety for people, the environment and the production process. These properties enable the optimum use of ECTFE in segments such as the chemical process industry, water treatment and microelectronics.



The SYGEF ECTFE product range includes pipes, fittings and the necessary jointing technology.

Longer service life of the system

High resistance

In the case of extremely aggressive media, regular replacement of normal piping components due to chemical attack is not uncommon. The extremely good resistance of SYGEF ECTFE counteracts this. For example, with 98% sulfuric acid the system offers a significantly longer service life than with alternative materials. Thus, it reduces maintenance costs and prevents recurring, costly interruptions of your production.

Compared to widely used PFA solutions, ECTFE is also characterized by optimum permeation and strength properties.



GF Piping Systems offers comprehensive project support with regard to chemical resistance, choice of material, installation and jointing technology.

85% faster assembly than PTFE/SSt

Modern welded connections

The SYGEF ECTFE components are securely connected in a few minutes using cutting-edge IR welding technology. Compared to lined steel pipes, installation time is significantly reduced, thereby reducing overall costs of installation.



IR-110 A: One of many machines to connect SYGEF ECTFE components.